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U.S. Naval Base, Pearl Harbor, Jet Engine Fuel Storage Tank  
(U.S. Naval Base, Pearl Harbor, Fleet and Industrial Supply Center)  
(Pearl City Fuel Annex, Tank No. 1, Structure No. S93)  
Lehua Avenue, Pearl City Peninsula  
Pearl Harbor  
Honolulu County  
Hawaii

**PHOTOGRAPHS**

**WRITTEN HISTORICAL AND DESCRIPTIVE DATA**

Historic American Engineering Record  
National Park Service  
Western Region  
Department of the Interior  
San Francisco, California 94107

## HISTORIC AMERICAN ENGINEERING RECORD

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HAER No. HI-31

Location: Pearl City Fuel Annex on Lehua Avenue, Pearl City Peninsula  
Pearl Harbor, City and County of Honolulu, Hawaii

USGS Pearl Harbor Quadrangle, Hawaii  
7.5 minutes series (orthophotoquad)  
Universal Transverse Mercator coordinates 4.606165.2365180

Date of Construction: 1951

Engineer: Unknown

Builder: Chicago Bridge and Iron Company

Present Owner: U.S. Naval Base, Pearl Harbor, Fleet and Industrial Supply  
Center

Present Use: Not in use.

Significance: The U.S. Naval Base, Pearl Harbor was designated as a  
National Historic Landmark in 1964; due to the crucial role it  
played in the Nation's defense during the twentieth century and  
the calamitous events which occurred on December 7, 1941.  
Built in 1951, Tank No. 1 functioned as a part of the Pearl  
Harbor Naval Base and is an Uncategorized Structure outside  
the Pearl Harbor National Historic Landmark.

Report Prepared By: Glenn Oeda, Civil Engineer  
Navy Public Works Center, Pearl Harbor  
Project Development Branch  
Pearl Harbor, Hawaii 96860-5470

Date: February 1995

## I. DESCRIPTION

Tank No. 1 is a circular tank, 120 feet in diameter and 37 feet high with a nominal capacity of 80,000 barrels. The tank is constructed on a 6" oil saturated sandbed contained by a reinforced concrete ring wall located 12" outside the tank shell. The tank has a welded steel shell with a 0.4375 in. Thick steel bottom plate and an external floating roof system. Each of the tanks at the Pearl City Fuel Annex have an approximately 10 feet high earthen berm containment that is covered with a reinforced concrete blanket.

## II. ARCHITECTURAL AND ENGINEERING INFORMATION

The tanks at the Pearl City Fuel Annex are part of a complex fuel pipeline system that services the Pearl Harbor area as well as Hickam Air Force Base and Barbers Point Naval Air Station.

## III. HISTORICAL INFORMATION

Tank No. 1 was originally constructed in 1951 by the Chicago Bridge and Iron Company as a motor gas and aviation gas storage tank. In October 1985, while containing aviation gas, a fire occurred, burning the upper 40% of the tank and warping areas of the upper shell. The tank was subsequently taken out of service. In March 1988, the tank was cleaned, gas freed and the roof was removed. Proposed Military Construction Project, P-167 will demolish Tanks No. 1 and 3.

## IV. SOURCES

Willbros Butler Engineers, Inc., Engineering Evaluation of Tank No. 1 (S-93), dated April 10, 1991

NAVFAC P-164; Detailed Inventory of Naval Shore Facilities

U.S. Naval Base, Pearl Harbor, National Historic Landmark, Historic Preservation Plan  
Gammon, Jim, Fleet and Industrial Supply Center, Fuel Department, Consultation with Glenn Oeda, 6 February 1995

### Plans and Drawings

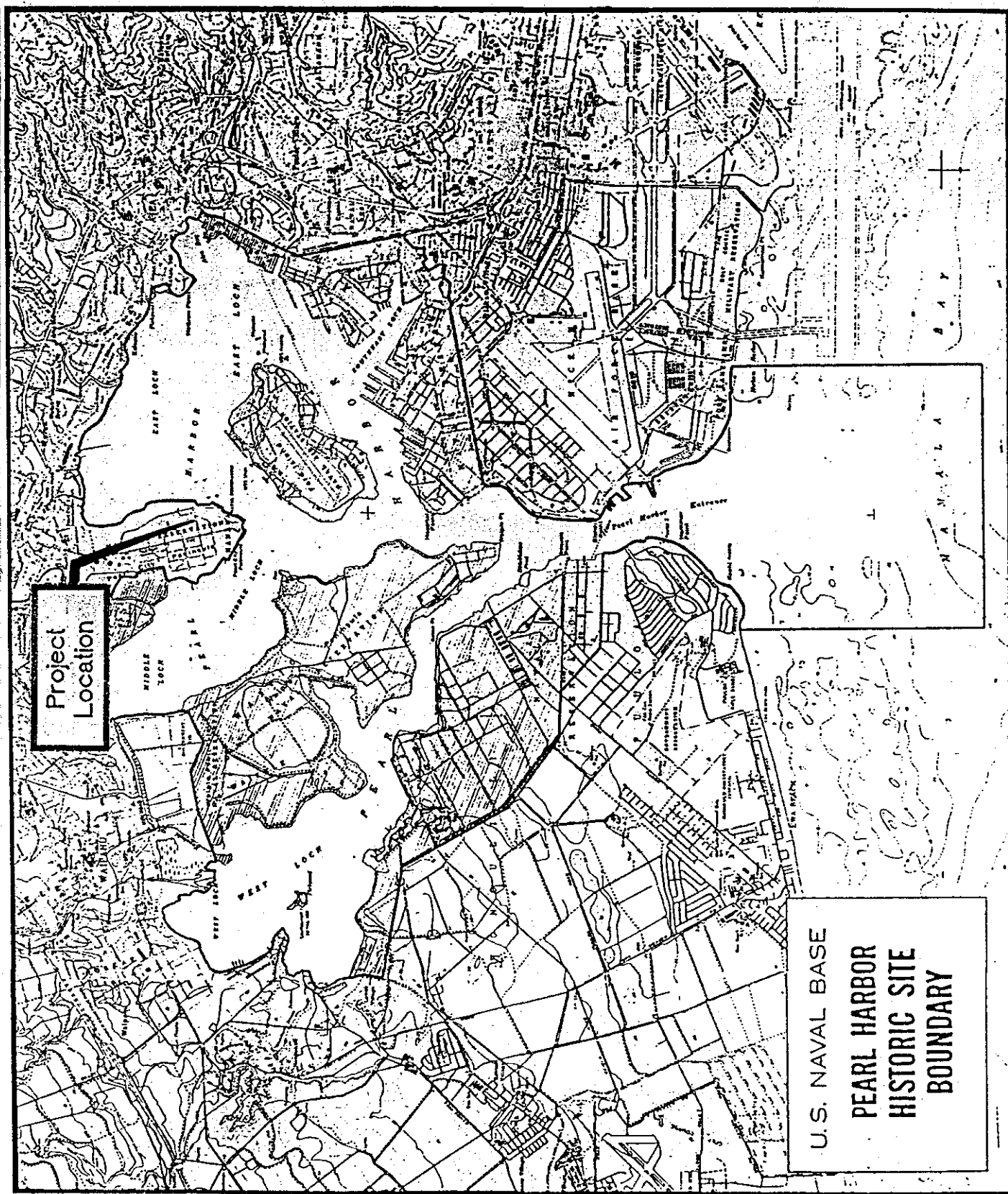
Pacific Division Drawing No. OA-N24-1409 dated 1/25/44

Pacific Division Drawing No. OA-N24-1710 dated 1/25/44

Pacific Division Drawing No. OA-N24-1746

Pacific Division Drawing No. 987426

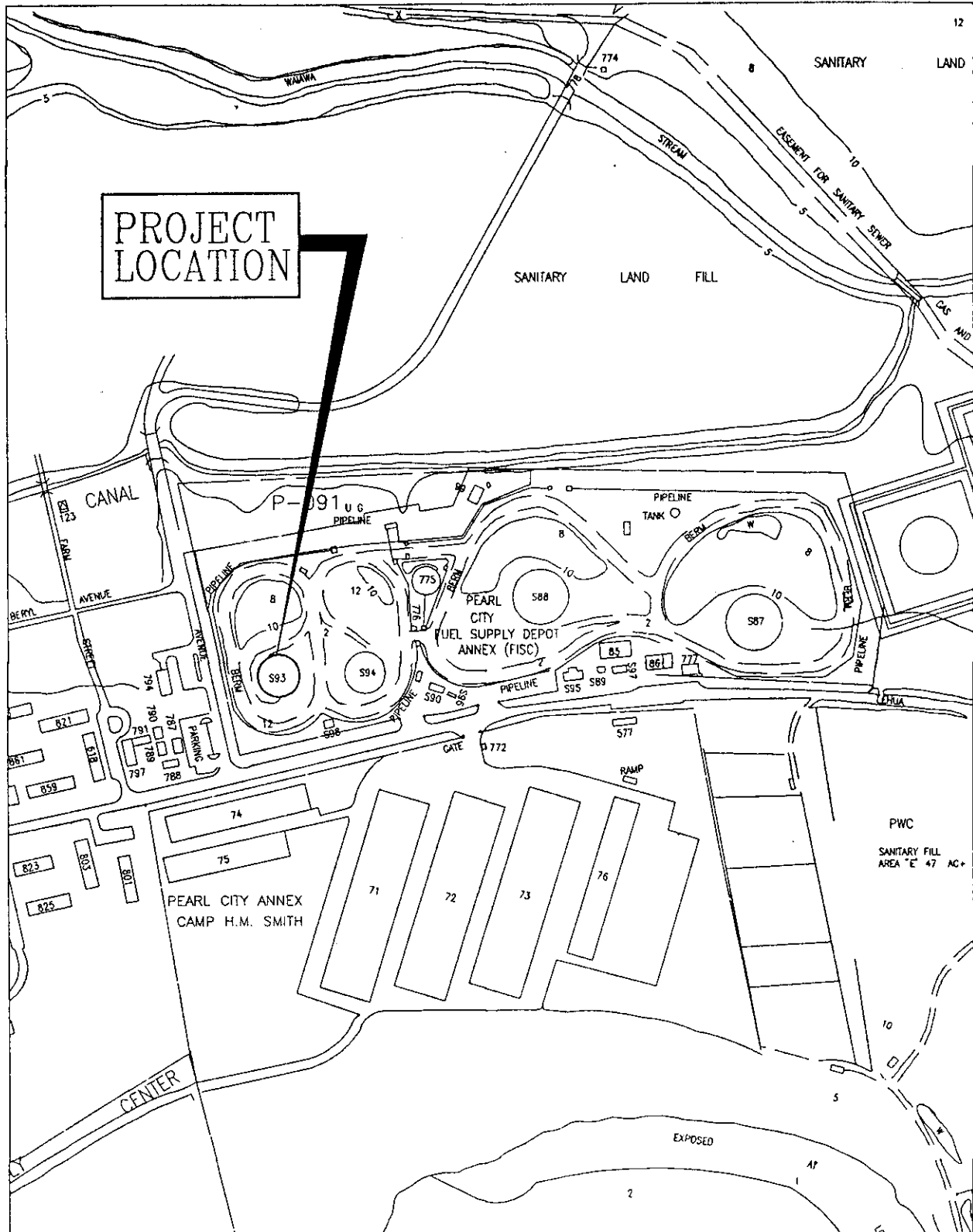
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VICINITY MAP

SCALE: 1" = 400'

